

Release notes for ENDF/B Development n-074\_W\_184  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

• **fizcon** Warnings:

1. Cross-correlations with threshold reactions, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT= 2 (1): X Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT= 2
  ENERGY INCORRECT                      SEQUENCE NUMBER    1
    EXPECT 1.00000E-05, FIND 1.00000E+04
  ENERGY INCORRECT                      SEQUENCE NUMBER    1
    EXPECT 1.00000E-05, FIND 1.00000E+04
... [16 more lines]

```

2. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT= 17 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT= 17
  ENERGY INCORRECT                      SEQUENCE NUMBER    3
    EXPECT 1.00000E-05, FIND 1.50000E+04
  ENERGY INCORRECT                      SEQUENCE NUMBER    3
    EXPECT 1.00000E-05, FIND 4.49650E+06

```

3. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT= 51 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT= 51
  ENERGY INCORRECT                      SEQUENCE NUMBER    6
    EXPECT 1.00000E-05, FIND 1.50000E+04
  ENERGY INCORRECT                      SEQUENCE NUMBER    6
    EXPECT 1.00000E-05, FIND 4.49650E+06

```

4. Cross-correlations with threshold reactions, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=102 (1): X Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=102
  ENERGY INCORRECT                      SEQUENCE NUMBER    1
    EXPECT 1.00000E-05, FIND 1.00000E+04
  ENERGY INCORRECT                      SEQUENCE NUMBER    7
    EXPECT 1.00000E-05, FIND 4.49650E+06
... [10 more lines]

```

5. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=851 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=851
  ENERGY INCORRECT                      SEQUENCE NUMBER    1
    EXPECT 1.00000E-05, FIND 4.49650E+06
  ENERGY INCORRECT                      SEQUENCE NUMBER    1
    EXPECT 1.00000E-05, FIND 4.49650E+06
... [10 more lines]

```

6. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=852 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=852
ENERGY INCORRECT                               SEQUENCE NUMBER    3
EXPECT 1.00000E-05, FIND 2.25360E+05

```

7. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=853 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=853
ENERGY INCORRECT                               SEQUENCE NUMBER    5
EXPECT 1.00000E-05, FIND 2.25360E+05

```

8. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=854 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=854
ENERGY INCORRECT                               SEQUENCE NUMBER    5
EXPECT 1.00000E-05, FIND 2.25360E+05

```

9. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=855 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=855
ENERGY INCORRECT                               SEQUENCE NUMBER    4
EXPECT 1.00000E-05, FIND 2.25360E+05

```

10. Threshold reaction, so covariance doesn't start at 10e-5 eV, FIZCON bug!  
*MAT=7437, MF=33, MT=856 (1): Thresh. cov.*

```

ERROR(S) FOUND IN MAT=7437, MF=33, MT=856
ENERGY INCORRECT                               SEQUENCE NUMBER    1
EXPECT 1.00000E-05, FIND 2.25360E+05

```

• **fizcon** Errors:

1. Outgoing ZA is wrong  
*MAT=7437, MF=10, MT= 18 (1): Bad ZA (b)*

```

ERROR(S) FOUND IN MAT=7437, MF=10, MT= 18
IZAP      0 NOT IN RANGE      3000 TO 120000

```

• **psyche** Warnings:

1. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.80000E-05 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.80000E-05 / DENSITY 4.15630E+01 SHOULD BE 3.94868E+01 (0): URR dens. (a)*

```

FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.80000E-05
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.80000E-05
DENSITY 4.15630E+01 SHOULD BE 3.94868E+01

```

2. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.80000E-05 / DENSITY 4.08849E+01 SHOULD BE 3.88445E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.80000E-05  
DENSITY 4.08849E+01 SHOULD BE 3.88445E+01

3. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.80000E-05 / DENSITY 3.89196E+01 SHOULD BE 3.69828E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.80000E-05  
DENSITY 3.89196E+01 SHOULD BE 3.69828E+01

4. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.80000E-05 / DENSITY 3.58602E+01 SHOULD BE 3.40843E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.80000E-05  
DENSITY 3.58602E+01 SHOULD BE 3.40843E+01

5. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.45000E-04 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.45000E-04 / DENSITY 3.01793E+01 SHOULD BE 2.77087E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.45000E-04  
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.45000E-04  
DENSITY 3.01793E+01 SHOULD BE 2.77087E+01

6. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.45000E-04 / DENSITY 2.96844E+01 SHOULD BE 2.72566E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.45000E-04  
DENSITY 2.96844E+01 SHOULD BE 2.72566E+01

7. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.45000E-04 / DENSITY 2.82503E+01 SHOULD BE 2.59464E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.45000E-04  
DENSITY 2.82503E+01 SHOULD BE 2.59464E+01

8. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.45000E-04 / DENSITY 2.60187E+01 SHOULD BE 2.39068E+01 (0): URR dens. (a)*

```

FILE 2
SECTION 151
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.45000E-04
DENSITY 2.60187E+01 SHOULD BE 2.39068E+01

```

• psyche Errors:

1. A probability distribution is negative. This is bad.  
*FILE 4 / SECTION 2 / DISTRIBUTION IS NEGATIVE / FROM -9.1293E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07 (0): Neg. prob.*

```

FILE 4
SECTION 2
DISTRIBUTION IS NEGATIVE
FROM -9.1293E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07

```

2. A probability distribution is negative. This is bad.  
*FILE 4 / SECTION 2 / DISTRIBUTION IS NEGATIVE / FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07 (0): Neg. prob.*

```

FILE 4
SECTION 2
DISTRIBUTION IS NEGATIVE
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07

```

3. A probability distribution is negative. This is bad.  
*FILE 4 / SECTION 2 / DISTRIBUTION IS NEGATIVE / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```

FILE 4
SECTION 2
DISTRIBUTION IS NEGATIVE
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

```

4. A probability distribution is negative. This is bad.  
*FILE 4 / SECTION 51 / DISTRIBUTION IS NEGATIVE / FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1325E-06 (0): Neg. prob.*

```

FILE 4
SECTION 51
DISTRIBUTION IS NEGATIVE
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1325E-06

```

5. A probability distribution is negative. This is bad.  
*FILE 4 / SECTION 51 / DISTRIBUTION IS NEGATIVE / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```

FILE 4
SECTION 51
DISTRIBUTION IS NEGATIVE
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [2 more lines]

```

6. A probability distribution is negative. This is bad.  
*FILE 4 / SECTION 51 / DISTRIBUTION IS NEGATIVE / FROM -6.6650E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.7684E-07 (0): Neg. prob.*

```
FILE 4
SECTION 51
DISTRIBUTION IS NEGATIVE
FROM -6.6650E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.7684E-07
```

7. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 346 / FROM -9.9506E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.9870E-06 (0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 346
FROM -9.9506E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.9870E-06
```

8. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 662 / FROM -9.9994E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08 (0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 662
FROM -9.9994E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08
```

9. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 880 / FROM -9.9890E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08 (0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 880
FROM -9.9890E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08
```

10. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 902 / FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06 (0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 902
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06
```

11. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 902 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 902
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [3 more lines]

```

12. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 902*  
*(0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 902
ENERGY BALANCE SUMMARY: Q = -7.41100E+06      ENERGY BALANCE SUMMARY: Q = -7.41100E+06

```

13. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 902*  
*/ ENERGY BALANCE SUMMARY: Q = -7.41100E+06 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 902
ENERGY BALANCE SUMMARY: Q = -7.41100E+06

```

14. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 880*  
*(0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 880
ENERGY BALANCE SUMMARY: Q = -1.36020E+07      ENERGY BALANCE SUMMARY: Q = -1.36020E+07

```

15. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 880*  
*/ ENERGY BALANCE SUMMARY: Q = -1.36020E+07 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 880
ENERGY BALANCE SUMMARY: Q = -1.36020E+07

```

16. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 370 /*  
*FROM -9.9506E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.9870E-06 (0):*  
*Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 370
FROM -9.9506E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.9870E-06

```

17. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 689*  
*/ FROM -9.9962E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 689  
FROM -9.9962E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

18. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946 /  
FROM -9.0005E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07 (0):  
Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946  
FROM -9.0005E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07

19. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 869 /  
FROM -9.9955E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 869  
FROM -9.9955E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

20. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891 /  
FROM -9.9976E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891  
FROM -9.9976E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08

21. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946 /  
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946  
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07

22. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946 /  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [34 more lines]



23. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957 /  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.5763E-07 (0):  
Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 957
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.5763E-07
```

24. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957 /  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 957
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [15 more lines]
```

25. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 814 /  
FROM -9.9994E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 814
FROM -9.9994E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

26. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891 /  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.9339E-06 (0):  
Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 891
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.9339E-06
```

27. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891 /  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 891
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [12 more lines]
```

28. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 913*

/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-07  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 913  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-07

29. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 913  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 913  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [6 more lines]

30. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946  
/ FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-07  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946  
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-07

31. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957  
/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957  
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

32. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957  
ENERGY BALANCE SUMMARY: Q = -7.69900E+06 ENERGY BALANCE SUMMARY: Q = -7.69900E+06  
ENERGY BALANCE SUMMARY: Q = -2.16660E+07 ENERGY BALANCE SUMMARY: Q = -2.16660E+07

33. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957  
/ ENERGY BALANCE SUMMARY: Q = -2.16660E+07 (0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 957  
ENERGY BALANCE SUMMARY: Q = -2.16660E+07

34. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 869 / FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08 (0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 869  
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08

35. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 880 / FROM -9.1675E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07 (0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 880  
FROM -9.1675E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07

36. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891 / FROM -6.8750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.3709E-06 (0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891  
FROM -6.8750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.3709E-06

37. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 902 / FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.3709E-06 (0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 902  
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.3709E-06

38. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924 / FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.0994E-06 (0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.0994E-06

39. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 924
      FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
      FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [15 more lines]
```

40. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 924
      ENERGY BALANCE SUMMARY: Q = -1.46330E+07      ENERGY BALANCE SUMMARY: Q = -1.46330E+07
```

41. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924*  
*/ ENERGY BALANCE SUMMARY: Q = -1.46330E+07 (0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 924
      ENERGY BALANCE SUMMARY: Q = -1.46330E+07
```

42. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 390 /*  
*FROM -9.9504E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 8.0466E-06 (0):*  
*Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 390
      FROM -9.9504E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 8.0466E-06
```

43. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 869*  
*/ FROM -9.9998E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 869
      FROM -9.9998E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08
```

44. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 869*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 869
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [2 more lines]

```

45. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 705 / FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 705
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

```

46. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 705 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 705
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [2 more lines]

```

47. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 748 / FROM -9.9732E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 748
FROM -9.9732E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.9407E-08

```

48. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 825 / FROM -9.9997E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08 (0): Neg. prob.*

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 825
FROM -9.9997E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

```

49. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 825 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```

FILE 6
SECTION 5

```

50. A probability distribution is negative. This is bad.  
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 836 /  
 FROM -9.8438E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.9802E-07 (0):  
 Neg. prob.

51. A probability distribution is negative. This is bad.  
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 836  
 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
 (0): Neg. prob.

52. A probability distribution is negative. This is bad.  
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 836  
 (0): Neg. prob.

53. A probability distribution is negative. This is bad.  
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 836  
 / ENERGY BALANCE SUMMARY: Q = 5.75300E+06 (0): Neg. prob.

54. A probability distribution is negative. This is bad.  
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 935 /  
 FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.8147E-06 (0):  
 Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE
SEQUENCE NUMBER 935
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.8147E-06

```

55. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 935 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```
FILE 6
SECTION 5
    DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 935
    FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
    FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [12 more lines]
```

56. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946 / FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.7486E-07 (0): Neg. prob.*

```
FILE 6
SECTION 5
    DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 946
    FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.7486E-07
```

57. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 968 / FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1683E-05 (0): Neg. prob.*

```
FILE 6
SECTION 5
    DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 968
    FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1683E-05
```

58. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 968 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.*

```
FILE 6
SECTION 5
    DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 968
    FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
    FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [22 more lines]
```

59. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 979 / FROM -8.3657E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07 (0): Neg. prob.*

```
FILE 6
SECTION 5
    DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 979
    FROM -8.3657E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07
```

60. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924*

/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -6.8545E-07  
(0): Neg. prob.

FILE 6

SECTION 5

DISTRIBUTION IS NEGATIVE

SEQUENCE NUMBER 924

FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -6.8545E-07

61. A probability distribution is negative. This is bad.

FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 935 /  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.9802E-06 (0):  
Neg. prob.

FILE 6

SECTION 5

DISTRIBUTION IS NEGATIVE

SEQUENCE NUMBER 935

FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.9802E-06

62. A probability distribution is negative. This is bad.

FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 979 /  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.6093E-06 (0):  
Neg. prob.

FILE 6

SECTION 5

DISTRIBUTION IS NEGATIVE

SEQUENCE NUMBER 979

FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.6093E-06

63. A probability distribution is negative. This is bad.

FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 979 /  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.

FILE 6

SECTION 5

DISTRIBUTION IS NEGATIVE

SEQUENCE NUMBER 979

FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

... [2 more lines]

64. A probability distribution is negative. This is bad.

FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 891 /  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.6028E-06 (0):  
Neg. prob.

FILE 6

SECTION 5

DISTRIBUTION IS NEGATIVE

SEQUENCE NUMBER 891

FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.6028E-06

65. A probability distribution is negative. This is bad.

FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924 /  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.6822E-06 (0):  
Neg. prob.



FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 924  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.6822E-06

66. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 935 /  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.5896E-06 (0):  
Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 935  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.5896E-06

67. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946 /  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9670E-06 (0):  
Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 946  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9670E-06

68. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 968 /  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.8147E-06 (0):  
Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 968  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.8147E-06

69. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1001  
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1504E-05  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1001  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1504E-05

70. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1001  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1001  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [4 more lines]

71. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1012*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9073E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1012
      FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9073E-06
```

72. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1012*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1012
      FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
      FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [6 more lines]
```

73. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1023*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.6822E-07*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1023
      FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.6822E-07
```

74. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1023*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1023
      FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
      FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [9 more lines]
```

75. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1023*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1023
      ENERGY BALANCE SUMMARY: Q = -2.08400E+06      ENERGY BALANCE SUMMARY: Q = -2.08400E+06
      ENERGY BALANCE SUMMARY: Q = 7.35400E+06       ENERGY BALANCE SUMMARY: Q = 7.35400E+06
```

76. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1023*

/ ENERGY BALANCE SUMMARY:  $Q = 7.35400E+06$  (0): Neg. prob.

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE
ENERGY BALANCE SUMMARY: Q = 7.35400E+06
SEQUENCE NUMBER 1023
```

- groupie Errors:

1. Very small elastic cross section found  
*0: Small elastic*

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

-----  
ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [98 more lines]

- fudge-4.0 Warnings:

1. Generic warning message  
*Reading ENDF file: ../n-074-W-184.endf (Error # 0): Warning*

WARNING: Encountered MT=18 MF=8/10 data (not yet accepted in ENDF format). See option --ignoreMF10Fission

2. A covariance format not yet supported by fudge (LRF=7 covariances)  
*Reading ENDF file: ../n-074-W-184.endf (Error # 1): Cov. unimp. (e)*

WARNING: skipping LRF=7 resonance covariances!

3. Dead link?  
*resonances / resolved / R\_Matrix\_Limited / channels / channel gamma + W185 (Error # 0): unresolvedLink*

WARNING: Unresolved link to /reactionSuite/reactions/reaction[@label='23']

4. Dead link?  
*resonances / resolved / R\_Matrix\_Limited / channel n + W184 (Error # 0): unresolvedLink*

WARNING: Unresolved link to /reactionSuite/reactions/reaction[@label='0']

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 1 (n + W184): / Form 'eval': / Component 0 (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.  
*Section 1 (n + W184): / Form 'eval': / Component 1 (Error # 0): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The on-diagonal elements of a covariance (the variance...) were very big.  
*Section 28 (W185 + gamma): / Form 'eval': (Error # 0): Large variance*

WARNING: Encountered very large variance (1.898370e+02%) at index 30.  
 WARNING: Encountered very large variance (6.280370e+02%) at index 31.  
 WARNING: Encountered very large variance (1.504880e+03%) at index 32.  
 WARNING: Encountered very large variance (3.208010e+03%) at index 33.

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

*Section 28 (W185 + gamma): / Form 'eval': (Error # 1): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

*Section 56 (n + W184 [angular distribution]): / Form 'eval': (Error # 1): Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. Found a negative probability  
*reaction label 0: n + W184 / Product: n / Distribution: / angularTwoBody - regions2d: / region index 0: XYs2d (Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 5.5e7 eV, worst case: -2.50592897077e-07  
 WARNING: Negative probabilities encountered. Incident energy: 6.e7 eV, worst case: -4.15406042343e-05  
 WARNING: Negative probabilities encountered. Incident energy: 7.e7 eV, worst case: -2.07630168309e-05

2. Energy range of data set does not match cross section range  
*reaction label 1: n + W184.e1 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (111819.8 -> 150000000.0) vs (111820.0 -> 150000000.0)

3. Found a negative probability  
*reaction label 4: n + W184.e4 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 1.3e8 eV, worst case: -1.03942506414e-06  
 WARNING: Negative probabilities encountered. Incident energy: 1.5e8 eV, worst case: -0.000178038547821

4. Energy range of data set does not match cross section range  
*reaction label 5: n + W184.e5 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1007977.0 -> 150000000.0) vs (1007980.0 -> 150000000.0)

5. Energy range of data set does not match cross section range  
*reaction label 6: n + W184.e6 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1011486.0 -> 150000000.0) vs (1011490.0 -> 150000000.0)

6. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.  
*reaction label 7:  $n + (W184_c \rightarrow W184 + \gamma)$  / Product:  $n$  / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy*

WARNING: Extra zero-probability outgoing energies found at incident energy 3.8e7 eV  
 WARNING: Extra zero-probability outgoing energies found at incident energy 4.2e7 eV  
 WARNING: Extra zero-probability outgoing energies found at incident energy 4.6e7 eV  
 WARNING: Extra zero-probability outgoing energies found at incident energy 5.e7 eV  
 ... plus 3 more instances of this message

7. Found a negative probability  
*reaction label 7:  $n + (W184_c \rightarrow W184 + \gamma)$  / Product:  $n$  / Distribution: (Error # 1): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 6.e7 eV, worst case: -3.3864215e-12  
 WARNING: Negative probabilities encountered. Incident energy: 7.e7 eV, worst case: -1.13454339664e-12  
 WARNING: Negative probabilities encountered. Incident energy: 8.e7 eV, worst case: -3.13260730866e-12  
 WARNING: Negative probabilities encountered. Incident energy: 1.15e8 eV, worst case: -1.07465177123e-14  
 ... plus 2 more instances of this message

8. Calculated and tabulated Q values disagree.  
*reaction label 8:  $n[multiplicity:'2'] + W183 + \gamma$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7516522.915313721 eV vs -7.411e6 eV!

9. Energy range of data set does not match cross section range  
*reaction label 8:  $n[multiplicity:'2'] + W183 + \gamma$  / Product:  $n$  / Distribution: / energyAngular - XYs3d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7451637.0 -> 150000000.0) vs (7451640.0 -> 150000000.0)

10. Energy range of data set does not match cross section range  
*reaction label 8:  $n[multiplicity:'2'] + W183 + \gamma$  / Product:  $W183$  / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7451637.0 -> 150000000.0) vs (7451640.0 -> 150000000.0)

11. Energy range of data set does not match cross section range  
*reaction label 8:  $n[multiplicity:'2'] + W183 + \gamma$  / Product:  $\gamma$  / Multiplicity: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7451637.0 -> 150000000.0) vs (7451640.0 -> 150000000.0)

12. Energy range of data set does not match cross section range  
*reaction label 8:  $n[multiplicity:'2'] + W183 + \gamma$  / Product:  $\gamma$  / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7451637.0 -> 150000000.0) vs (7451640.0 -> 150000000.0)

13. Energy range of data set does not match cross section range  
*reaction label 8:  $n[multiplicity:'2'] + W183 + \gamma$  / Product:  $\gamma$  / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

- WARNING: Domain doesn't match the cross section domain: (7451637.0 -> 150000000.0) vs (7451640.0 -> 150000000.0)
14. Calculated and tabulated Q values disagree.  
*reaction label 9:  $n[multiplicity:'3'] + W182 + gamma$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -13153915.10180664 eV vs -1.3602e7 eV!

  15. Energy range of data set does not match cross section range  
*reaction label 9:  $n[multiplicity:'3'] + W182 + gamma$  / Product:  $n$  / Distribution: / energyAngular - XYs3d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (13676580.0 -> 150000000.0) vs (13676600.0 -> 150000000.0)

  16. Energy range of data set does not match cross section range  
*reaction label 9:  $n[multiplicity:'3'] + W182 + gamma$  / Product:  $W182$  / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (13676580.0 -> 150000000.0) vs (13676600.0 -> 150000000.0)

  17. Energy range of data set does not match cross section range  
*reaction label 9:  $n[multiplicity:'3'] + W182 + gamma$  / Product:  $gamma$  / Multiplicity: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (13676580.0 -> 150000000.0) vs (13676600.0 -> 150000000.0)

  18. Energy range of data set does not match cross section range  
*reaction label 9:  $n[multiplicity:'3'] + W182 + gamma$  / Product:  $gamma$  / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (13676580.0 -> 150000000.0) vs (13676600.0 -> 150000000.0)

  19. Energy range of data set does not match cross section range  
*reaction label 9:  $n[multiplicity:'3'] + W182 + gamma$  / Product:  $gamma$  / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (13676580.0 -> 150000000.0) vs (13676600.0 -> 150000000.0)

  20. Calculated and tabulated Q values disagree.  
*reaction label 10:  $n[multiplicity:'4'] + W181 + gamma$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -21610003.3815918 eV vs -2.1666e7 eV!

  21. Found a negative probability  
*reaction label 10:  $n[multiplicity:'4'] + W181 + gamma$  / Product:  $n$  / Distribution: / energyAngular - XYs3d: (Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 1.5e8 eV, worst case: -2.17077612569e-14

  22. Calculated and tabulated Q values disagree.  
*reaction label 11:  $n + H1 + Ta183 + gamma$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7673291.981781006 eV vs -7.699e6 eV!

  23. Energy range of data set does not match cross section range  
*reaction label 11:  $n + H1 + Ta183 + gamma$  / Product:  $n$  / Distribution: / energyAngular - XYs3d: (Error # 0): Domain mismatch (a)*

- WARNING: Domain doesn't match the cross section domain: (7741216.0 -> 150000000.0) vs (7741220.0 -> 150000000.0)
24. Energy range of data set does not match cross section range  
*reaction label 11:  $n + H1 + Ta183 + \gamma$  / Product:  $H1$  / Distribution: / energyAngular - XYs3d: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (7741216.0 -> 150000000.0) vs (7741220.0 -> 150000000.0)
25. Energy range of data set does not match cross section range  
*reaction label 11:  $n + H1 + Ta183 + \gamma$  / Product:  $Ta183$  / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (7741216.0 -> 150000000.0) vs (7741220.0 -> 150000000.0)
26. Energy range of data set does not match cross section range  
*reaction label 11:  $n + H1 + Ta183 + \gamma$  / Product:  $\gamma$  / Multiplicity: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (7741216.0 -> 150000000.0) vs (7741220.0 -> 150000000.0)
27. Energy range of data set does not match cross section range  
*reaction label 11:  $n + H1 + Ta183 + \gamma$  / Product:  $\gamma$  / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (7741216.0 -> 150000000.0) vs (7741220.0 -> 150000000.0)
28. Energy range of data set does not match cross section range  
*reaction label 11:  $n + H1 + Ta183 + \gamma$  / Product:  $\gamma$  / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (7741216.0 -> 150000000.0) vs (7741220.0 -> 150000000.0)
29. Calculated and tabulated Q values disagree.  
*reaction label 12:  $H1 + Ta184$  (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: -2035899.795288086 eV vs -2.084e6 eV!
30. Energy range of data set does not match cross section range  
*reaction label 12:  $H1 + Ta184$  / Product:  $H1$  / Distribution: / angularTwoBody - XYs2d: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (2095427.0 -> 150000000.0) vs (2095430.0 -> 150000000.0)
31. Calculated and tabulated Q values disagree.  
*reaction label 13:  $H1 + (Ta184_c \rightarrow Ta184 + \gamma)$  (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: -2035899.795288086 eV vs -2.084e6 eV!
32. Energy range of data set does not match cross section range  
*reaction label 13:  $H1 + (Ta184_c \rightarrow Ta184 + \gamma)$  / Product:  $H1$  / Distribution: / energyAngular - XYs3d: (Error # 0): Domain mismatch (a)*
- WARNING: Domain doesn't match the cross section domain: (2095427.0 -> 150000000.0) vs (2095430.0 -> 150000000.0)

33. Energy range of data set does not match cross section range  
*reaction label 13:  $H1 + (Ta184\_c \rightarrow Ta184 + \gamma)$  / Product:  $Ta184\_c$  / Decay product:  $Ta184$  / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (2095427.0 -> 150000000.0) vs (2095430.0 -> 150000000.0)

34. Energy range of data set does not match cross section range  
*reaction label 13:  $H1 + (Ta184\_c \rightarrow Ta184 + \gamma)$  / Product:  $Ta184\_c$  / Decay product:  $\gamma$  / Multiplicity: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (2095427.0 -> 150000000.0) vs (2095430.0 -> 150000000.0)

35. Energy range of data set does not match cross section range  
*reaction label 13:  $H1 + (Ta184\_c \rightarrow Ta184 + \gamma)$  / Product:  $Ta184\_c$  / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (2095427.0 -> 150000000.0) vs (2095430.0 -> 150000000.0)

36. Energy range of data set does not match cross section range  
*reaction label 13:  $H1 + (Ta184\_c \rightarrow Ta184 + \gamma)$  / Product:  $Ta184\_c$  / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (2095427.0 -> 150000000.0) vs (2095430.0 -> 150000000.0)

37. Calculated and tabulated Q values disagree.  
*reaction label 14:  $He4 + Hf181$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7312021.805633545 eV vs 7.354e6 eV!

38. Calculated and tabulated Q values disagree.  
*reaction label 15:  $He4 + Hf181\_e1$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7266141.805633545 eV vs 7308120. eV!

39. Calculated and tabulated Q values disagree.  
*reaction label 16:  $He4 + Hf181\_e2$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7244021.805633545 eV vs 7.286e6 eV!

40. Calculated and tabulated Q values disagree.  
*reaction label 17:  $He4 + Hf181\_e3$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7213421.805633545 eV vs 7.2554e6 eV!

41. Calculated and tabulated Q values disagree.  
*reaction label 18:  $He4 + Hf181\_e4$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7142021.805633545 eV vs 7.184e6 eV!

42. Calculated and tabulated Q values disagree.  
*reaction label 19:  $He4 + Hf181\_e5$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7107621.805633545 eV vs 7.1496e6 eV!



43. Calculated and tabulated Q values disagree.  
*reaction label 20: He4 + Hf181\_e6 (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: 7060201.805633545 eV vs 7102180. eV!
44. Calculated and tabulated Q values disagree.  
*reaction label 21: He4 + Hf181\_e7 (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: 7014021.805633545 eV vs 7.056e6 eV!
45. Calculated and tabulated Q values disagree.  
*reaction label 22: He4 + (Hf181\_c ->Hf181 + gamma) (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: 7014021.805633545 eV vs 7.056e6 eV!
46. Calculated and tabulated Q values disagree.  
*reaction label 23: W185 + gamma (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: 6031424.102905273 eV vs 5.753e6 eV!
47. Calculated and tabulated Q values disagree.  
*reaction label 24: n[multiplicity:'2'] + H1 + Ta182 + gamma (Error # 0): Q mismatch*
- WARNING: Calculated and tabulated Q-values disagree: -14250249.53271484 eV vs -1.4633e7 eV!
48. Found a negative probability  
*reaction label 24: n[multiplicity:'2'] + H1 + Ta182 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): Negative prob.*
- WARNING: Negative probabilities encountered. Incident energy: 1.5e8 eV, worst case: -2.14093452426e-17
49. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.  
*reaction label 24: n[multiplicity:'2'] + H1 + Ta182 + gamma / Product: H1 / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy*
- WARNING: Extra zero-probability outgoing energies found at incident energy 1.3e8 eV  
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.5e8 eV
50. Found a negative probability  
*reaction label 24: n[multiplicity:'2'] + H1 + Ta182 + gamma / Product: H1 / Distribution: (Error # 1): Negative prob.*
- WARNING: Negative probabilities encountered. Incident energy: 1.5e8 eV, worst case: -6.34683406408e-12
51. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.  
*Section 56 (n + W184 [angular distribution]): / Form 'eval': / LegendreLValue L=1 vs 1 (Error # 0): Bad evs*
- WARNING: 3 negative eigenvalues! Worst case = -5.577598e-04
52. Since the min allowed variance is 0, this means really you have a negative variance!!!!  
*Section 57 (n + W184\_e1 [angular distribution]): / Form 'eval': / LegendreLValue L=1 vs 1 (Error # 0): Very small variance*

WARNING: Encountered very small variance (-2.787640e-04%) at index 16.  
 WARNING: Encountered very small variance (-5.812590e-04%) at index 17.  
 WARNING: Encountered very small variance (-1.447860e-04%) at index 18.  
 WARNING: Encountered very small variance (-4.155700e-05%) at index 19.  
 ... plus 9 more instances of this message

53. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.  
*Section 57 (n + W184\_e1 [angular distribution]): / Form 'eval': (Error # 1): Bad evs*

WARNING: 7 negative eigenvalues! Worst case = -2.952484e-02

• njoy2012 Warnings:

1. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (0): HEATR/hinit (4)*

---message from hinit---mf6, mt102 does not give recoil za= 74185  
 photon momentum recoil used.

2. Coefficient mismatch of some sort  
*covr...process covariance data (1): COVR/matshd (2)*

---message from matshd---processing of mat/mt 7437/ 1 vs. mat1/mt1 7437/ 2  
 largest coefficient= -4.06122E+00 at index 185 179

3. The number of coefficients was too large in a covariance  
*covr...process covariance data (2): Cov:Too many coeff.*

---message from matshd---3552 coefficients > 1  
 reset and continue.

4. The number of coefficients was too large in a covariance  
*covr...process covariance data (3): Cov:Too many coeff.*

---message from matshd--- 239 coefficients > 2  
 reset and continue

5. Coefficient mismatch of some sort  
*covr...process covariance data (4): COVR/matshd (2)*

---message from matshd---processing of mat/mt 7437/ 1 vs. mat1/mt1 7437/102  
 largest coefficient= -1.50488E+12 at index 179 177

6. The number of coefficients was too large in a covariance  
*covr...process covariance data (5): Cov:Too many coeff.*

---message from matshd---5417 coefficients > 1  
 reset and continue.

7. The number of coefficients was too large in a covariance  
*covr...process covariance data (6): Cov:Too many coeff.*

---message from matshd---\*\*\*\* coefficients > 2  
 reset and continue

8. Generic warning message  
*covr...process covariance data (7): Warning*

```
---message from stderr
At line 832 of file endf.f90 (unit = 10, file = '../tmp/n-074_W_184/njoy2012/gfortrantmpRqro6M')
```

• njoy2012 Errors:

1. An angular distribution is negative  
*acer...monte carlo neutron and photon data (0): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
1 for mt= 2 e= 5.500E+07
```

2. An angular distribution is negative  
*acer...monte carlo neutron and photon data (1): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
8 for mt= 2 e= 6.000E+07
```

3. An angular distribution is negative  
*acer...monte carlo neutron and photon data (2): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
9 for mt= 2 e= 7.000E+07
```

4. An angular distribution is negative  
*acer...monte carlo neutron and photon data (3): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
52 for mt= 51 e= 1.150E+08
```

5. An angular distribution is negative  
*acer...monte carlo neutron and photon data (4): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
56 for mt= 51 e= 1.300E+08
```

6. An angular distribution is negative  
*acer...monte carlo neutron and photon data (5): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
35 for mt= 51 e= 1.500E+08
```

7. An angular distribution is negative  
*acer...monte carlo neutron and photon data (6): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
1 for mt= 54 e= 1.300E+08
```

8. An angular distribution is negative  
*acer...monte carlo neutron and photon data (7): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
37 for mt= 54 e= 1.500E+08
```

9. An angular distribution is negative  
*acer...monte carlo neutron and photon data (8): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
      5 for mt= 16 e= 4.900E+01

```
10. An angular distribution is negative  
*acer...monte carlo neutron and photon data (9): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
     45 for mt= 16 e= 5.875E+01

```
11. An angular distribution is negative  
*acer...monte carlo neutron and photon data (10): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 7.910E+01

```
12. An angular distribution is negative  
*acer...monte carlo neutron and photon data (11): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
      1 for mt= 16 e= 1.055E+02

```
13. An angular distribution is negative  
*acer...monte carlo neutron and photon data (12): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
      3 for mt= 16 e= 1.273E+02

```
14. An angular distribution is negative  
*acer...monte carlo neutron and photon data (13): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
     58 for mt= 16 e= 1.320E+02

```
15. An angular distribution is negative  
*acer...monte carlo neutron and photon data (14): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
     49 for mt= 16 e= 1.335E+02

```
16. An angular distribution is negative  
*acer...monte carlo neutron and photon data (15): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
     50 for mt= 16 e= 1.351E+02

```
17. An angular distribution is negative  
*acer...monte carlo neutron and photon data (16): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
     21 for mt= 16 e= 1.366E+02

```
18. An angular distribution is negative  
*acer...monte carlo neutron and photon data (17): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
3 for mt= 17 e= 1.257E+02
19. An angular distribution is negative  
*acer...monte carlo neutron and photon data (18): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
4 for mt= 17 e= 1.304E+02
20. An angular distribution is negative  
*acer...monte carlo neutron and photon data (19): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
55 for mt= 17 e= 1.320E+02
21. An angular distribution is negative  
*acer...monte carlo neutron and photon data (20): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
5 for mt= 28 e= 4.900E+01
22. An angular distribution is negative  
*acer...monte carlo neutron and photon data (21): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
45 for mt= 28 e= 5.875E+01
23. An angular distribution is negative  
*acer...monte carlo neutron and photon data (22): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 28 e= 7.910E+01
24. An angular distribution is negative  
*acer...monte carlo neutron and photon data (23): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 28 e= 1.022E+02
25. An angular distribution is negative  
*acer...monte carlo neutron and photon data (24): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 28 e= 1.055E+02
26. An angular distribution is negative  
*acer...monte carlo neutron and photon data (25): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
8 for mt= 28 e= 1.163E+02
27. An angular distribution is negative  
*acer...monte carlo neutron and photon data (26): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 28 e= 1.289E+02

28. An angular distribution is negative  
*acer...monte carlo neutron and photon data (27): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
48 for mt= 28 e= 1.320E+02
29. An angular distribution is negative  
*acer...monte carlo neutron and photon data (28): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
60 for mt= 28 e= 1.335E+02
30. An angular distribution is negative  
*acer...monte carlo neutron and photon data (29): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
63 for mt= 28 e= 1.351E+02
31. An angular distribution is negative  
*acer...monte carlo neutron and photon data (30): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
11 for mt= 28 e= 1.382E+02
32. An angular distribution is negative  
*acer...monte carlo neutron and photon data (31): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 37 e= 1.195E+02
33. An angular distribution is negative  
*acer...monte carlo neutron and photon data (32): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 41 e= 1.242E+02
34. An angular distribution is negative  
*acer...monte carlo neutron and photon data (33): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 41 e= 1.304E+02
35. An angular distribution is negative  
*acer...monte carlo neutron and photon data (34): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
5 for mt= 91 e= 4.900E+01
36. An angular distribution is negative  
*acer...monte carlo neutron and photon data (35): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
45 for mt= 91 e= 5.875E+01
37. An angular distribution is negative  
*acer...monte carlo neutron and photon data (36): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
2 for mt= 91 e= 7.422E+01
38. An angular distribution is negative  
*acer...monte carlo neutron and photon data (37): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
5 for mt= 91 e= 1.010E+02
39. An angular distribution is negative  
*acer...monte carlo neutron and photon data (38): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
12 for mt= 91 e= 1.119E+02
40. An angular distribution is negative  
*acer...monte carlo neutron and photon data (39): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
4 for mt= 91 e= 1.163E+02
41. An angular distribution is negative  
*acer...monte carlo neutron and photon data (40): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 91 e= 1.177E+02
42. An angular distribution is negative  
*acer...monte carlo neutron and photon data (41): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.242E+02
43. An angular distribution is negative  
*acer...monte carlo neutron and photon data (42): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
54 for mt= 91 e= 1.320E+02
44. An angular distribution is negative  
*acer...monte carlo neutron and photon data (43): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
60 for mt= 91 e= 1.335E+02
45. An angular distribution is negative  
*acer...monte carlo neutron and photon data (44): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
34 for mt= 91 e= 1.351E+02
46. An angular distribution is negative  
*acer...monte carlo neutron and photon data (45): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt= 91 e= 1.366E+02

47. An angular distribution is negative  
*acer...monte carlo neutron and photon data (46): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      9 for mt= 91 e= 1.428E+02

```
48. An angular distribution is negative  
*acer...monte carlo neutron and photon data (47): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
     114 for mt= 91 e= 1.459E+02

```
49. An angular distribution is negative  
*acer...monte carlo neutron and photon data (48): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      3 for mt= 28 e= 1.034E+02

```
50. An angular distribution is negative  
*acer...monte carlo neutron and photon data (49): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
     22 for mt= 28 e= 1.046E+02

```
51. An angular distribution is negative  
*acer...monte carlo neutron and photon data (50): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt= 28 e= 1.069E+02

```
52. An angular distribution is negative  
*acer...monte carlo neutron and photon data (51): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt= 28 e= 1.096E+02

```
53. An angular distribution is negative  
*acer...monte carlo neutron and photon data (52): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
     38 for mt= 28 e= 1.136E+02

```
54. An angular distribution is negative  
*acer...monte carlo neutron and photon data (53): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
     55 for mt= 28 e= 1.150E+02

```
55. An angular distribution is negative  
*acer...monte carlo neutron and photon data (54): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
     26 for mt= 28 e= 1.163E+02

```
56. An angular distribution is negative  
*acer...monte carlo neutron and photon data (55): Neg.  $P(Ej\mu)$  (b)*



- message from ptleg2---negative probs found  
71 for mt= 28 e= 1.177E+02
57. An angular distribution is negative  
*acer...monte carlo neutron and photon data (56): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
23 for mt= 28 e= 1.190E+02
58. An angular distribution is negative  
*acer...monte carlo neutron and photon data (57): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 28 e= 1.133E+02
59. An angular distribution is negative  
*acer...monte carlo neutron and photon data (58): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 28 e= 1.164E+02
60. An angular distribution is negative  
*acer...monte carlo neutron and photon data (59): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
44 for mt= 28 e= 1.258E+02
61. An angular distribution is negative  
*acer...monte carlo neutron and photon data (60): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
26 for mt= 28 e= 1.273E+02
62. An angular distribution is negative  
*acer...monte carlo neutron and photon data (61): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
36 for mt= 28 e= 1.289E+02
63. An angular distribution is negative  
*acer...monte carlo neutron and photon data (62): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt= 28 e= 1.304E+02
64. An angular distribution is negative  
*acer...monte carlo neutron and photon data (63): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
92 for mt= 28 e= 1.320E+02
65. An angular distribution is negative  
*acer...monte carlo neutron and photon data (64): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
32 for mt= 28 e= 1.335E+02

66. An angular distribution is negative  
*acer...monte carlo neutron and photon data (65): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
15 for mt= 28 e= 1.351E+02
67. An angular distribution is negative  
*acer...monte carlo neutron and photon data (66): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
88 for mt= 28 e= 1.366E+02
68. An angular distribution is negative  
*acer...monte carlo neutron and photon data (67): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
31 for mt= 28 e= 1.382E+02
69. An angular distribution is negative  
*acer...monte carlo neutron and photon data (68): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
32 for mt= 28 e= 1.397E+02
70. An angular distribution is negative  
*acer...monte carlo neutron and photon data (69): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 41 e= 1.226E+02
71. An angular distribution is negative  
*acer...monte carlo neutron and photon data (70): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
4 for mt= 41 e= 1.242E+02
72. An angular distribution is negative  
*acer...monte carlo neutron and photon data (71): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
21 for mt= 41 e= 1.257E+02
73. An angular distribution is negative  
*acer...monte carlo neutron and photon data (72): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
61 for mt= 41 e= 1.273E+02
74. An angular distribution is negative  
*acer...monte carlo neutron and photon data (73): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
44 for mt= 41 e= 1.289E+02
75. An angular distribution is negative  
*acer...monte carlo neutron and photon data (74): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
42 for mt= 41 e= 1.304E+02
76. An angular distribution is negative  
*acer...monte carlo neutron and photon data (75): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt=649 e= 7.678E+01
77. An angular distribution is negative  
*acer...monte carlo neutron and photon data (76): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
56 for mt=649 e= 1.034E+02
78. An angular distribution is negative  
*acer...monte carlo neutron and photon data (77): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
37 for mt=649 e= 1.046E+02
79. An angular distribution is negative  
*acer...monte carlo neutron and photon data (78): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
45 for mt=649 e= 1.059E+02
80. An angular distribution is negative  
*acer...monte carlo neutron and photon data (79): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
84 for mt=649 e= 1.071E+02
81. An angular distribution is negative  
*acer...monte carlo neutron and photon data (80): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
4 for mt=649 e= 1.083E+02
82. An angular distribution is negative  
*acer...monte carlo neutron and photon data (81): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
80 for mt=649 e= 1.095E+02
83. An angular distribution is negative  
*acer...monte carlo neutron and photon data (82): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
37 for mt=649 e= 1.107E+02
84. An angular distribution is negative  
*acer...monte carlo neutron and photon data (83): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt=649 e= 1.082E+02

85. An angular distribution is negative  
*acer...monte carlo neutron and photon data (84): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt=649 e= 1.109E+02
86. An angular distribution is negative  
*acer...monte carlo neutron and photon data (85): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt=649 e= 1.123E+02
87. An angular distribution is negative  
*acer...monte carlo neutron and photon data (86): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
35 for mt=649 e= 1.136E+02
88. An angular distribution is negative  
*acer...monte carlo neutron and photon data (87): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
22 for mt=649 e= 1.150E+02
89. An angular distribution is negative  
*acer...monte carlo neutron and photon data (88): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
58 for mt=649 e= 1.163E+02
90. An angular distribution is negative  
*acer...monte carlo neutron and photon data (89): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
74 for mt=649 e= 1.177E+02
91. An angular distribution is negative  
*acer...monte carlo neutron and photon data (90): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
69 for mt=649 e= 1.190E+02
92. An angular distribution is negative  
*acer...monte carlo neutron and photon data (91): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
9 for mt=649 e= 1.204E+02
93. An angular distribution is negative  
*acer...monte carlo neutron and photon data (92): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
27 for mt=649 e= 1.217E+02
94. An angular distribution is negative  
*acer...monte carlo neutron and photon data (93): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
38 for mt=649 e= 1.231E+02
95. An angular distribution is negative  
*acer...monte carlo neutron and photon data (94): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
17 for mt=649 e= 1.245E+02
96. An angular distribution is negative  
*acer...monte carlo neutron and photon data (95): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
40 for mt=649 e= 1.258E+02
97. An angular distribution is negative  
*acer...monte carlo neutron and photon data (96): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt=649 e= 1.133E+02
98. An angular distribution is negative  
*acer...monte carlo neutron and photon data (97): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
48 for mt=649 e= 1.242E+02
99. An angular distribution is negative  
*acer...monte carlo neutron and photon data (98): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
62 for mt=649 e= 1.258E+02
100. An angular distribution is negative  
*acer...monte carlo neutron and photon data (99): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
19 for mt=649 e= 1.273E+02
101. An angular distribution is negative  
*acer...monte carlo neutron and photon data (100): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
83 for mt=649 e= 1.289E+02
102. An angular distribution is negative  
*acer...monte carlo neutron and photon data (101): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
31 for mt=649 e= 1.304E+02
103. An angular distribution is negative  
*acer...monte carlo neutron and photon data (102): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
66 for mt=649 e= 1.320E+02

104. An angular distribution is negative  
*acer...monte carlo neutron and photon data (103): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
48 for mt=649 e= 1.335E+02
```

105. An angular distribution is negative  
*acer...monte carlo neutron and photon data (104): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
47 for mt=649 e= 1.366E+02
```

106. An angular distribution is negative  
*acer...monte carlo neutron and photon data (105): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
62 for mt=649 e= 1.382E+02
```

107. An angular distribution is negative  
*acer...monte carlo neutron and photon data (106): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
20 for mt=649 e= 1.397E+02
```

108. An angular distribution is negative  
*acer...monte carlo neutron and photon data (107): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
84 for mt=649 e= 1.413E+02
```

109. An angular distribution is negative  
*acer...monte carlo neutron and photon data (108): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
64 for mt=649 e= 1.428E+02
```

110. An angular distribution is negative  
*acer...monte carlo neutron and photon data (109): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
70 for mt=649 e= 1.444E+02
```

111. An angular distribution is negative  
*acer...monte carlo neutron and photon data (110): Neg. P(Ej $\mu$ ) (b)*

```
---message from ptleg2---negative probs found
29 for mt=649 e= 1.459E+02
```

• **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution  
*0: Bad Ang. Dist.*

```
ACELST WARNING - Processing Ang.Dist.MT          2
E-grid non-monotonic  7.000000000E+01 7.000000000E+01
```

- `endf2htm` Warnings:

1. Build of a section of the HTML page failed because the format hasn't been implemented in ENDF2HTML.  
*MF32MT151: Unimplemented*

At line 2659 of file endf.f  
Fortran runtime error: Bad value during integer read

- `xsectplotter` Warnings:

1. Generic warning message  
*(Error # 2): Warning*

WARNING: Encountered MT=18 MF=8/10 data (not yet accepted in ENDF format). See option `--ignoreMF10Fission`

2. A covariance format not yet supported by fudge (LRF=7 covariances)  
*(Error # 3): Cov. unimp. (e)*

WARNING: skipping LRF=7 resonance covariances!